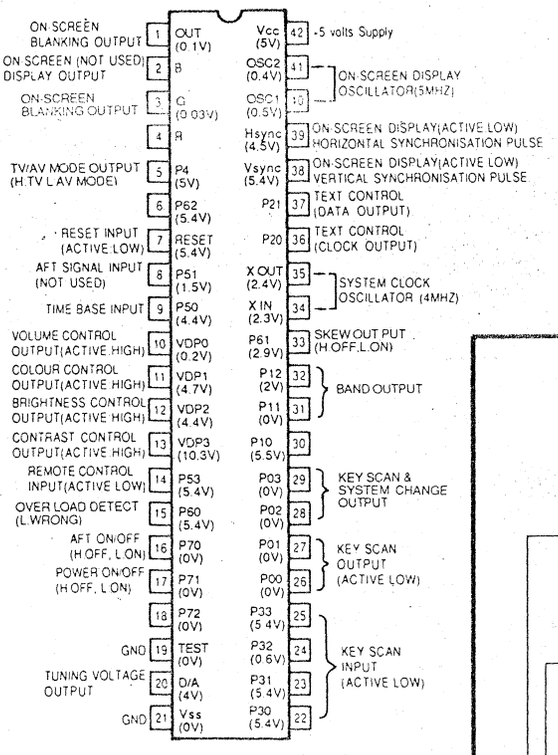
IC701



Q701	
	VOLT.
B	0V
C	5.4V
E	0V

Q721	
	VOLT.
B	4.6V
C	5.2V
E	5.3V

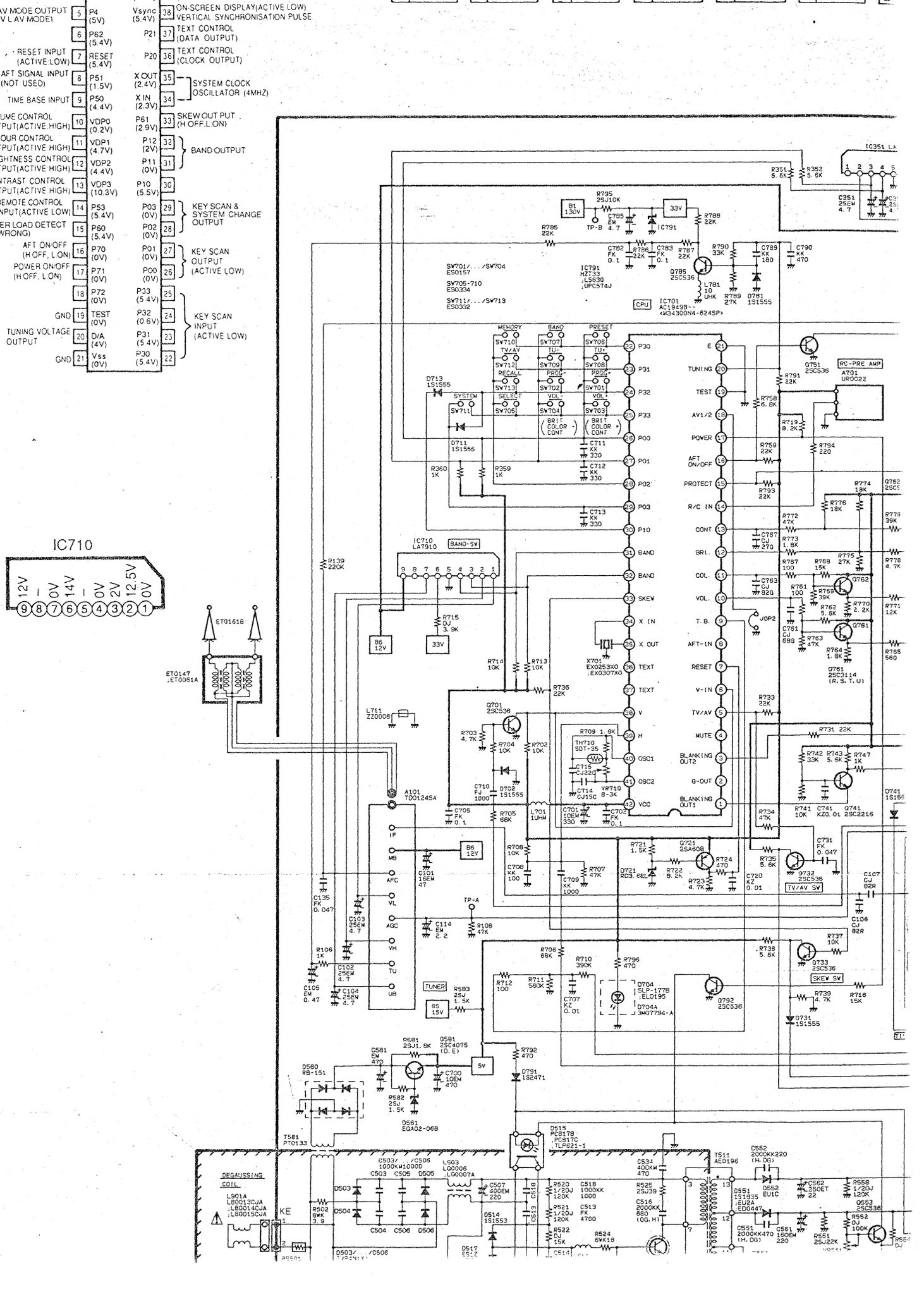
Q731	
	VOLT.
B	0.03V
C	7V
E	0V

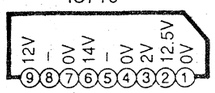
Q732	
	VOLT.
B	0.7V
C	0.06V
E	0V

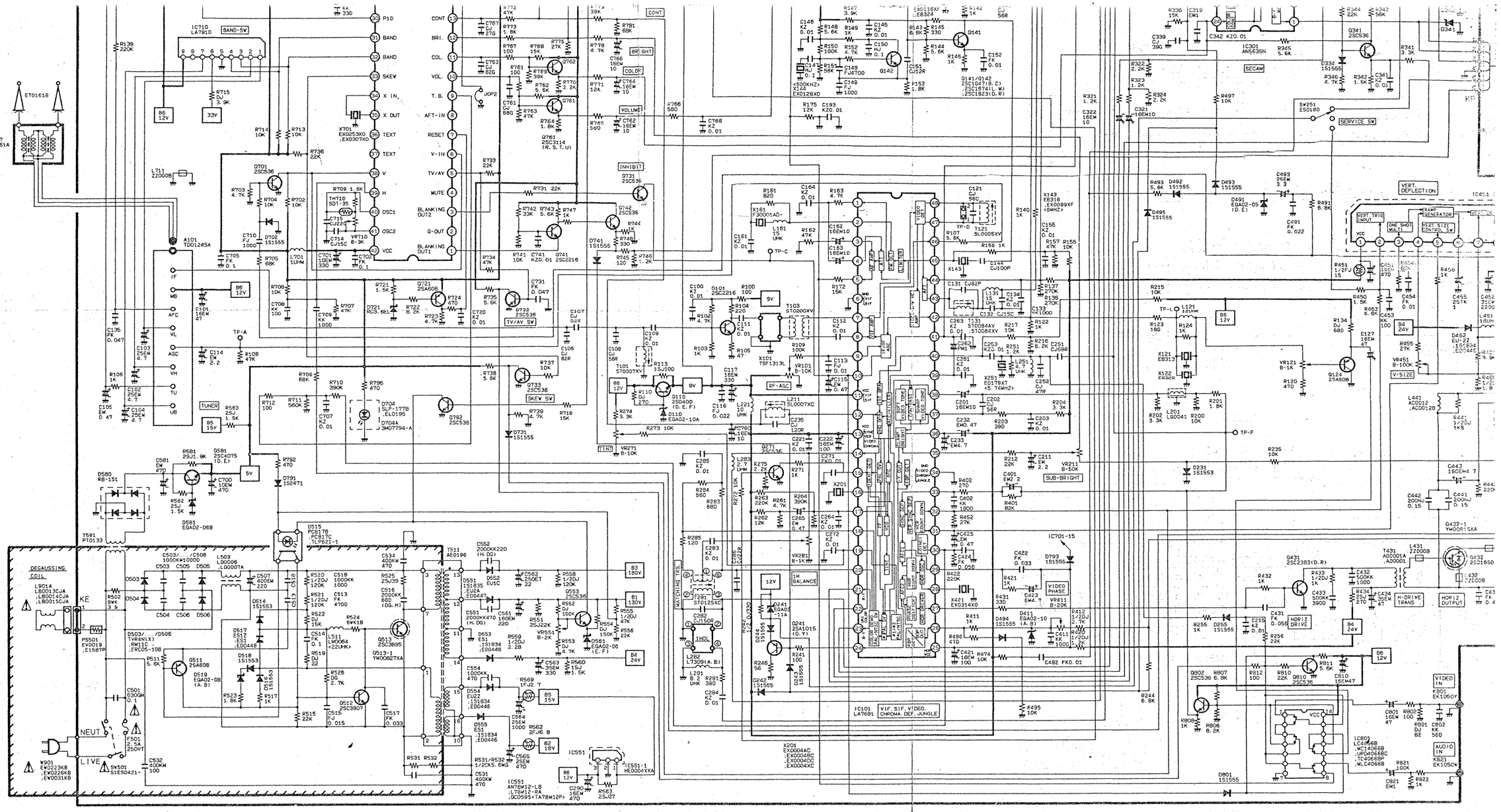
Q733	
	VOLT.
B	0.7V
C	0.03V
E	0V

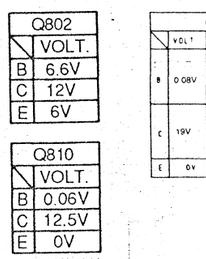
Q741	
	VOLT.
B	0.15V
C	0.1V
E	0.9V

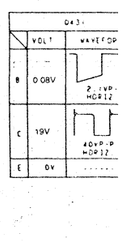
IC710

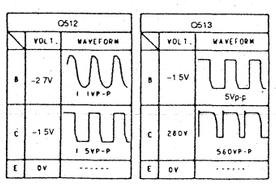


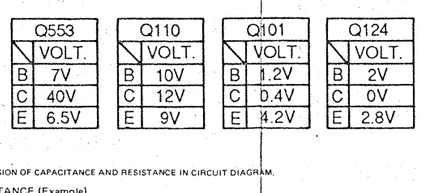


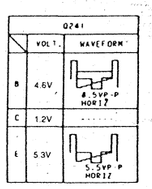


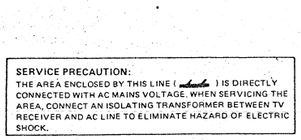












SERVICE PRECAUTION:
THE AREA ENCLOSED BY THIS LINE (⚠) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE. WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

SANYO

COLOUR TELEVISION

A3 CHASSIS SERIES

SERVICE REF.NO. **CSM6012-00**

Part No. 4AA6P200107--E2LD(A3-C)

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER COMPONENTS INDICATED BY A MARK ⚠ IN THIS CIRCUIT DIAGRAM SHOW COMPONENTS WHOSE VALUE HAVE SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE PARTS LIST OF SERVICE MANUAL BE USED FOR COMPONENTS REPLACEMENT POINTED OUT BY THE MARK.

CIRCUIT DIAGRAM NOTES:

1. ALL RESISTANCE VALUES ARE IN OHMS, K = 1,000, M = 1,000,000.
2. ALL RESISTANCE RATED WATTAGES ARE 1/4W UNLESS OTHERWISE NOTED.
3. EXCEPTING ELECTROLYTIC CAPACITORS, ALL CAPACITANCE VALUES OF LESS THAN 1 ARE EXPRESSED IN UF, AND MORE THAN 1 ARE IN PF.
   ELECTROLYTIC CAPACITANCE VALUES ARE IN UF.
4. ALL CAPACITANCE RATED VOLTAGES ARE 50V UNLESS OTHERWISE NOTED.
5. ALL INDUCTANCE VALUES ARE IN UH.
6. VOLTAGE READINGS TAKEN WITH A "VTVM" ARE FROM POINT INDICATED TO CHASSIS GROUND. VOLTAGE READINGS TAKEN BY USING A COLOUR BAR SIGNAL ARE WITH ALL CONTROLS AT NORMAL AND AFC SWITCH IN "OFF" POSITION. SOME VOLTAGES MAY VARY WITH SIGNAL STRENGTH.
7. WAVEFORMS WERE TAKEN WITH COLOUR BAR SIGNAL AND CONTROLS ADJUSTED FOR NORMAL PICTURE. WAVEFORMS WERE TAKEN BY USING A WIDE BAND OSCILLOSCOPE AND A LOW CAPACITY PROBE.
8. VOLTAGE AND WAVEFORM VALUES OF TRANSISTORS IN THE AREA ENCLOSED BY LINE (- - -) ARE MEASURED TO BASE THE ELECTRIC POTENTIAL AT PIN 3 OF T311.
9. THIS CIRCUIT DIAGRAM COVERS A BASIC OR REPRESENTATIVE CHASSIS ONLY. THERE MAY BE SOME COMPONENTS OR PARTIAL CIRCUIT DIFFERENCES BETWEEN THE ACTUAL CHASSIS AND THE CIRCUIT DIAGRAM.
10. EXPRESSION OF CAPACITANCE AND RESISTANCE IN CIRCUIT DIAGRAM.

CAPACITANCE (Example)

1000 C M 2200 D

- Characteristic
- Capacitance value (2200pF)
- Allowable error (±20%)
  - J ..... ±5%
  - K ..... ±10%
  - M ..... ±20%
- Kind (Ceramic)
  - T, A, E, U, D Electrolytic
  - C, K, B ..... Ceramic
  - F ..... Mylar film
  - M, N ..... Polypropylene
  - Z ..... Metalized paper
- Rated voltage (1000V)

RESISTANCE (Example)

1/2 N J 1/2

- Resistance value (1.2Ω)
- Allowable error (±5%)
- Kind (Metalized carbon)
  - D ..... Carbon
  - N ..... Metalized carbon
  - S ..... Oxide metalized
  - W ..... Wire wounding
  - C ..... Solid
- Rated Wattage (1/2W)

11. DIODE IS1555 MAY BE REPLACED WITH IS2473, IS2076 OR DS442 UNLESS OTHERWISE NOTED.
    TRANSISTOR 2SC536 (E, F, G) MAY BE REPLACED WITH 2SC1740S (Q, R, S), 2SC1740 (Q, R, S), 2SC945A (Q, R, P) OR 2SC1815 (G, O, Y) UNLESS OTHERWISE NOTED.
    TRANSISTOR 2SA608 (E, F) MAY BE REPLACED WITH 2SA933 (O, R), 2SA564 (QA, RA) OR 2SA1015 (O, Y) UNLESS OTHERWISE NOTED.

	VOLT.
B	0.7V
C	0.06V
E	0V

Q732

	VOLT.
B	0.7V
C	0.03V
E	0V

Q733

	VOLT.
B	0.15V
C	0.1V
E	0.9V

Q741

	VOLT.
B	0.17V
C	12V
E	12V

Q742

	VOLT.
B	0.03V
C	7.2V
E	0V

Q751

	VOLT.
B	0.5V
C	4.6V
E	0V

Q785

	VOLT.
B	0V
C	11V
E	0V

Q792

IC171

1	11.5V
2	5V
3	0V
4	0.1V
5	7V
6	7.4V
7	–
8	7.5V
9	15V

IC351

–	1.3V	0.2V	0.3V	–	12V	–0.8V	–	12V
1	2	3	4	5	6	7	8	9

IC301 (SECAM)

1	5.5V	4.7V	
2	5.5V	5.5V	
3	6.6V	4.5V	
4	4.5V	4.5V	
5	3.3V	3V	
6	3.3V	7.2V	
7	0V	6.9V	
8	2.8V	11V	
9	0V	3V	
10	3.1V	2.1V	

Q301	VOLT.
B	6V
C	12V
E	5.5V

Q341

	VOLT.
B	2.6V
C	6.5V
E	2.2V

Q351	VOLT.
B	–0.7V
C	12V
E	0V

Q357

	VOLT.
B	0.7V
C	0.08V
E	0V

Q641	VOLT.
B	0V
C	100V
E	0V

Q601	VOLT.	WAVEFORM
B	6.6V	4.2Vp-p HORIZ
C	104V	100Vp-p HORIZ
E	6.4V	-----

Q611	VOLT.	WAVEFORM
B	6.6V	4.2Vp-p HORIZ
C	103V	100Vp-p HORIZ
E	6.4V	-----

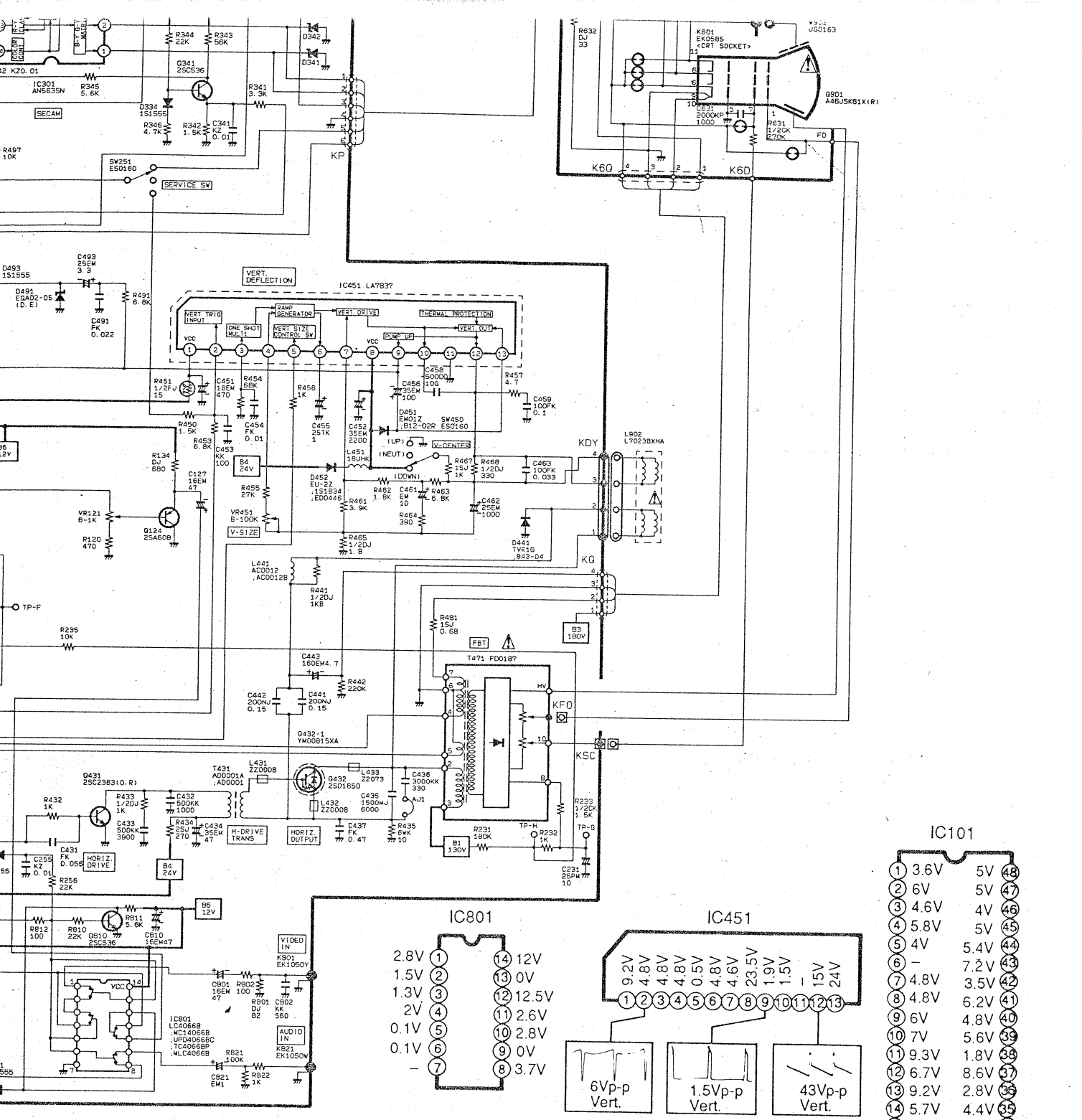
Q621	VOLT.	WAVEFORM
B	6.6V	3.7Vp-p HORIZ
C	100V	95Vp-p HORIZ
E	6.4V	-----

MAIN UNIT E2LD
UE2323

CRT UNIT E2KS UE2152

IC101

1	3.6V
2	6V
48	5V
47	5V



IC101

1	3.6V	5V	48
2	6V	5V	47
3	4.6V	4V	46
4	5.8V	5V	45
5	4V	5.4V	44
6	–	7.2V	43
7	4.8V	3.5V	42
8	4.8V	6.2V	41
9	6V	4.8V	40
10	7V	5.6V	39
11	9.3V	1.8V	38
12	6.7V	8.6V	37
13	9.2V	2.8V	36
14	5.7V	4.4V	35
15	7V	–	34
16	5.8V	7V	33
17	6.2V	4.8V	32
18	3.4V	0.4V	31
19	4.8V	7.4V	30
20	3.5V	5.8V	29
21	5.5V	5.2V	28
22	5.5V	0.8V	27
23	5.5V	0.6V	26
24	4.5V	7.7V	25

IC801

2.8V	1	14	12V
1.5V	2	13	0V
1.3V	3	12	12.5V
2V	4	11	2.6V
0.1V	5	10	2.8V
0.1V	6	9	0V
–	7	8	3.7V

IC451

9.2V	4.8V	4.8V	4.8V	0.5V	4.8V	4.6V	23.5V	1.9V	1.5V	–	15V	24V
1	2	3	4	5	6	7	8	9	10	11	12	13

6Vp-p Vert. | 1.5Vp-p Vert. | 43Vp-p Vert.

Q802	
	VOLT.
B	6.6V
C	12V
E	6V

Q810	
	VOLT.
B	0.06V
C	12.5V
E	0V

Q431		
	VOLT	WAVEFORM
B	0.08V	2.1VP-P HORIZ
C	19V	40VP-P HORIZ
E	0V	------

Q432		
	VOLT	WAVEFORM
B	2.3V	1.4VP-P HORIZ
C	80V	1000VP-P HORIZ
E	2.4V	1.2VP-P HORIZ

OR DS442 UNLESS

H 2SC1740S (Q, R, S), Y) UNLESS OTHERWISE

SA933 (Q, R), 2SA564 D.

TRANSISTOR, DIODE & INTEGRATED CIRCUIT TERMINAL GUIDE

C: COLLECTOR
B: BASE
E: EMITTER

A: ANODE
K: CATHODE

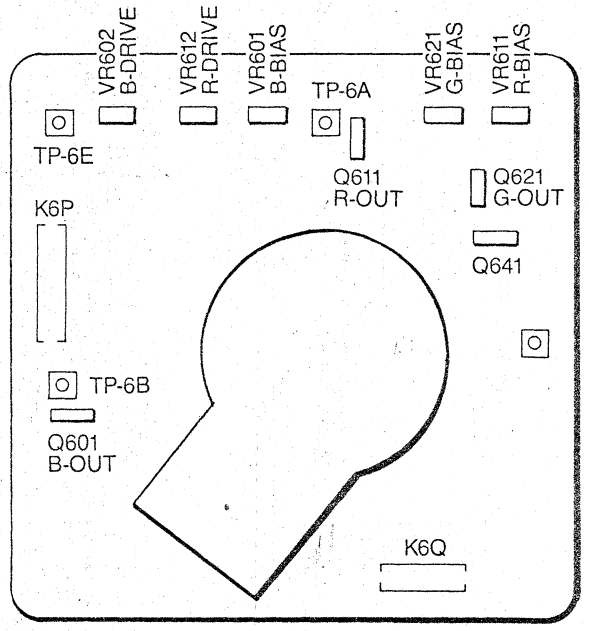
PARTICULAR PARTS SYMBOL

FUSIBLE RESISTOR

NON-POLE ELECTROLYTIC CAPACITOR

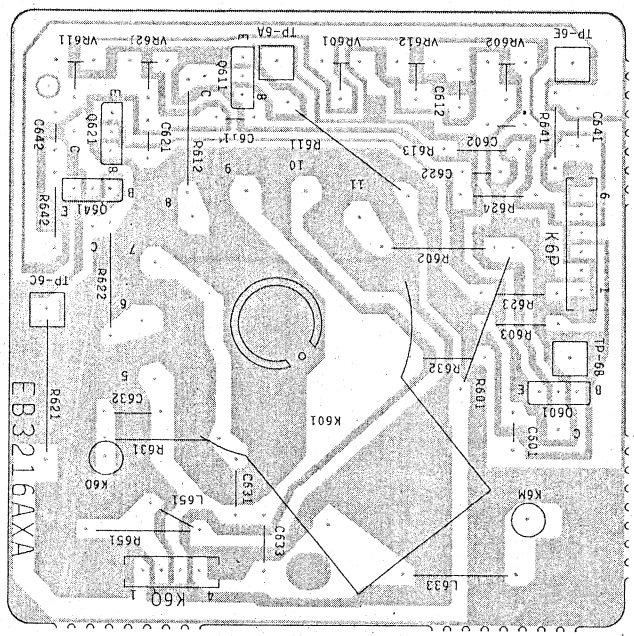
POSISTER

CRT UNIT



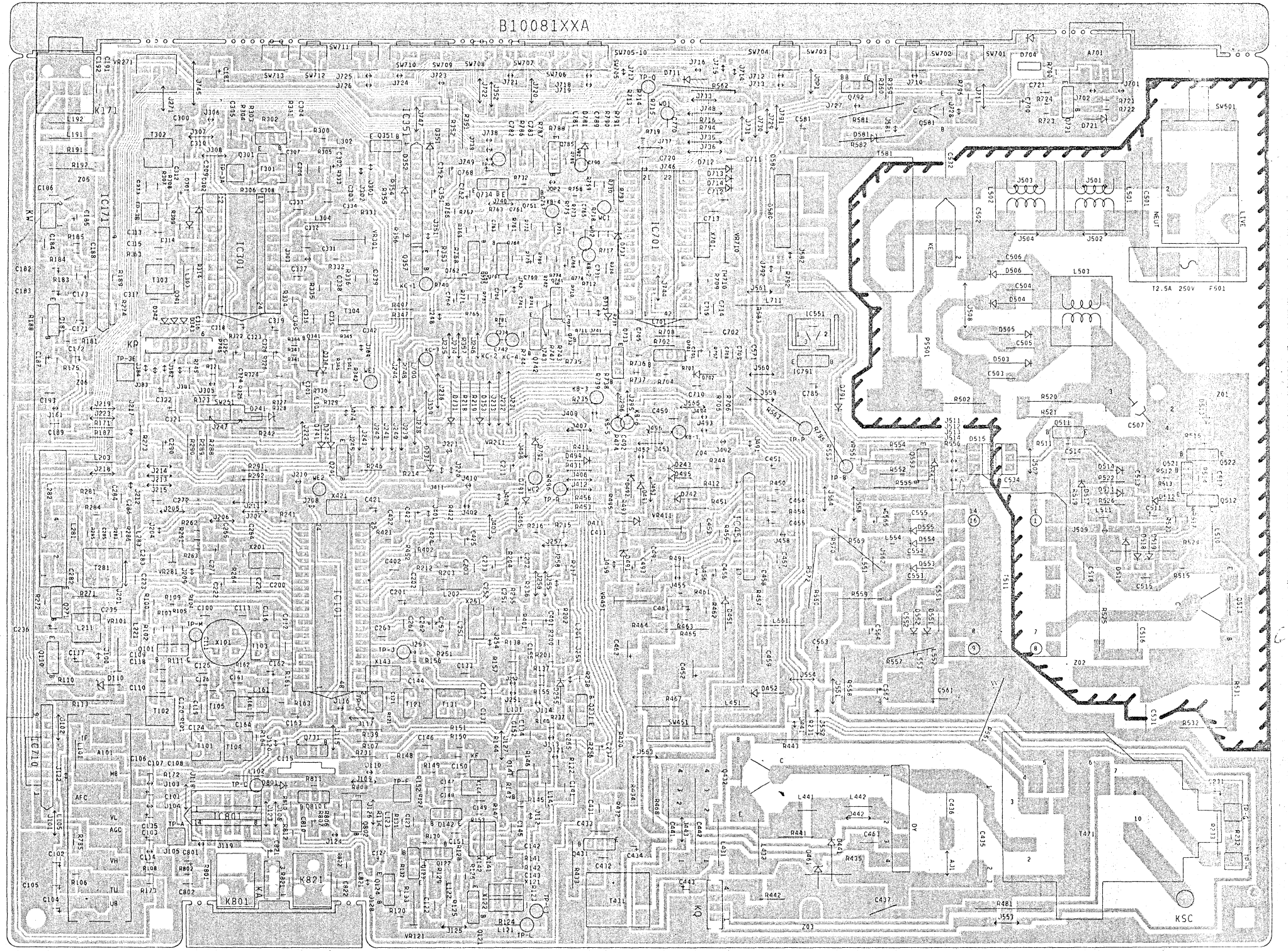
E2LD

CRT BOARD (CIRCUIT SIDE)



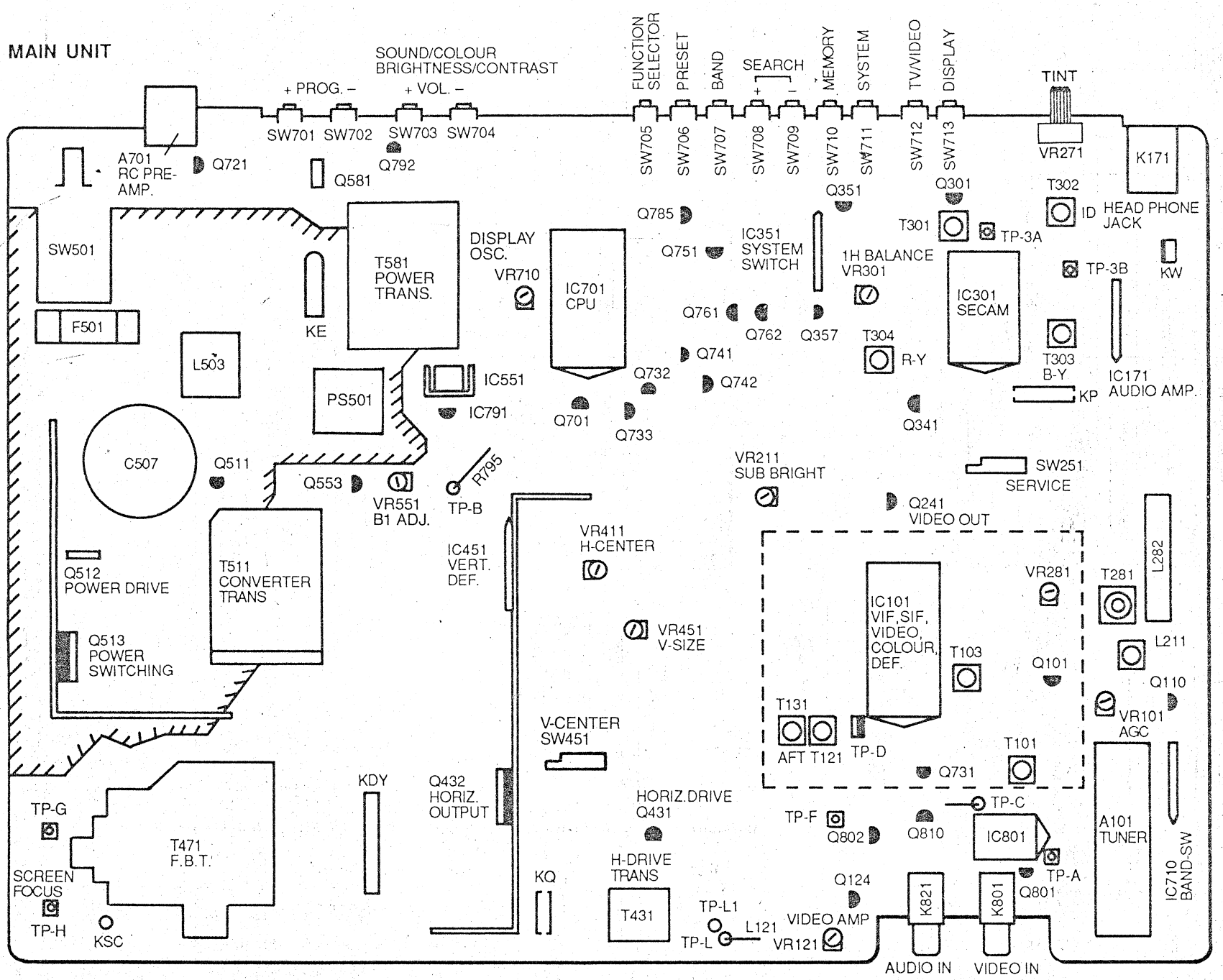
EB3216AXA E2KA

MAIN BOARD (CIRCUIT SIDE)



COMPONENT LOCATION

MAIN UNIT



Sanyo CSY6012-00 ch A2